

PROBLEM SUMMARY

Sample Rating Trend **WATER**

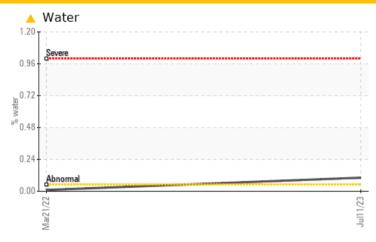
4093716 (S/N 1013)

Component

Compressor

KAESER SIGMA (OEM) M-460 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

There is too much water present in this sample to perform a particle count. We advise that you stop the unit and follow the water drain-off procedure for this component. We recommend an early resample in 500 hours to monitor this condition.

PROBLEMATIC TEST RESULTS										
Sample Status				ABNORMAL	ABNORMAL					
Water	%	ASTM D6304	>0.05	△ 0.102	0.010					
ppm Water	ppm	ASTM D6304	>500	1020	100.4					
Appearance	scalar	*Visual	NORML	▲ HAZY	NORML					
Emulsified Water	scalar	*Visual	>0.05	A 0.2%	NEG					

Customer Id: HALNORCA Sample No.: KCPA005411 Lab Number: 05904389 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:

Don Baldridge +1 don.b505@comcast.net

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

21 Mar 2022 Diag: Don Baldridge

ISO



No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service





OIL ANALYSIS REPORT

Sample Rating Trend



WATER

4093716 (S/N 1013)

Component

Compressor

KAESER SIGMA (OEM) M-460 (--- GAL)

DIAGNOSIS

Recommendation

There is too much water present in this sample to perform a particle count. We advise that you stop the unit and follow the water drain-off procedure for this component. We recommend an early resample in 500 hours to monitor this condition.

All component wear rates are normal.

Contamination

There is a light concentration of water present in the

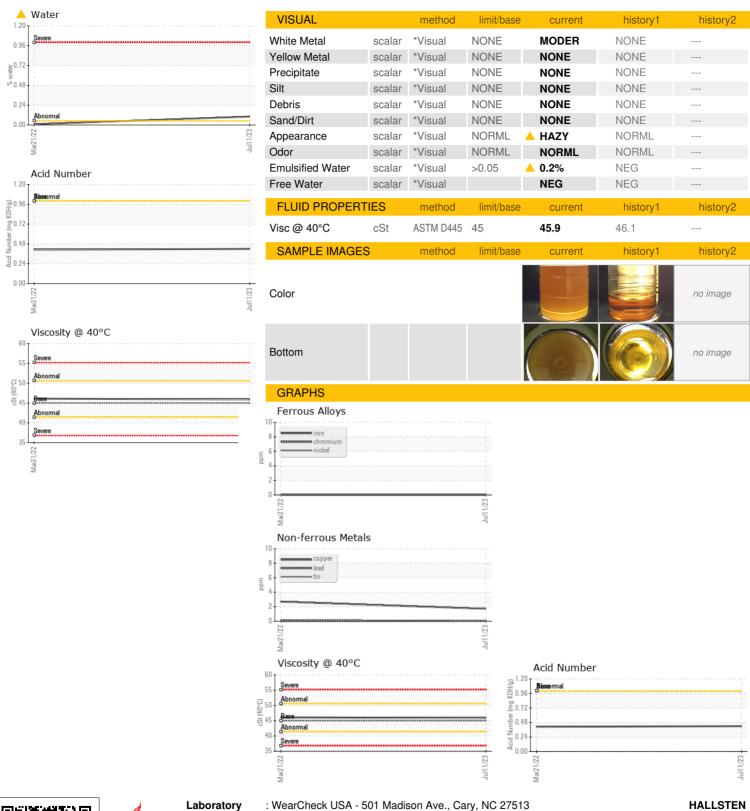
Fluid Condition

The AN level is acceptable for this fluid.

			Mar2022	Jul2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA005411	KCP41029	
Sample Date		Client Info		11 Jul 2023	21 Mar 2022	
Machine Age	hrs	Client Info		12834	11275	
Oil Age	hrs	Client Info		0	2124	
Oil Changed		Client Info		N/A	Changed	
Sample Status				ABNORMAL	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	0	
Chromium	ppm	ASTM D5185m	>10	0	0	
Nickel	ppm	ASTM D5185m	>3	0	0	
Titanium	ppm	ASTM D5185m	>3	<1	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>10	<1	<1	
Lead	ppm	ASTM D5185m	>10	0	0	
Copper	ppm	ASTM D5185m	>50	2	3	
Tin	ppm	ASTM D5185m	>10	0	<1	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	
Barium	ppm	ASTM D5185m	90	12	0	
Molybdenum	ppm	ASTM D5185m	0	0	0	
Manganese	ppm	ASTM D5185m		<1	0	
Magnesium	ppm	ASTM D5185m	100	57	48	
Calcium	ppm	ASTM D5185m	0	<1	0	
Phosphorus	ppm	ASTM D5185m	0	5	0	
Zinc	ppm	ASTM D5185m	0	2	2	
Sulfur	ppm	ASTM D5185m	23500	23982	19389	
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	13	7	
Sodium	ppm	ASTM D5185m	0	18	15	
Potassium	ppm	ASTM D5185m	>20	<1	4	
Water	%	ASTM D6304		△ 0.102	0.010	
ppm Water	ppm	ASTM D6304	>500	<u>▲</u> 1020	100.4	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647			10761	
Particles >6µm		ASTM D7647	>1300		<u>^</u> 2701	
Particles >14µm		ASTM D7647	>80		<u>^</u> 214	
Particles >21µm		ASTM D7647	>20		<u>4</u> 3	
Particles >38µm		ASTM D7647	>4		1	
Particles >71µm		ASTM D7647	>3		0	
Oil Cleanliness		ISO 4406 (c)	>/17/13		<u> </u>	
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.42	0.41	



OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number **Unique Number**

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : KCPA005411 : 05904389

Received : 10565745

Diagnosed Diagnostician : Don Baldridge Test Package : IND 2 (Additional Tests: KF, PrtCount)

: 21 Jul 2023 : 26 Jul 2023

NORTH HIGHLANDS, CA Contact: R. WRIGHT rwright@hallsten.com

To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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US 95660

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